- 1 sector. It will also avoid costs through the
- 2 nonduplication of existing state resources. Even
- 3 though it's a logical network in that regard it is a
- 4 stand alone network in that it will be dedicated to
- 5 education in terms of function, service and
- 6 accountability. The network capacity will be
- 7 dedicated, measurable and secure and there's no risk
- 8 of cross-subsidies with users of a larger state
- 9 network. So there's no risk that capacity once set
- 10 aside for education entity will not be available when
- 11 needed.
- Who is building this network? Senate bill
- 13 6705 created a 16-member telecommunications oversight
- 14 and policy committee, which we call TOPC, that's
- 15 comprised of legislators, agency executives, educators
- 16 and the state librarian, and this group has final
- 17 authority of the network language and construction.
- 18 DIS provides staff to the TOPC and our director, Steve
- 19 Kolodny, serves as the convenor. The legislation puts
- 20 the planning responsibility basically on three
- 21 agencies. It directs the Information Services board
- 22 to develop a technical plan for the construction of
- 23 the network. I'm working with representatives from
- 24 K-12 and higher education as well as with DIS. DIS
- 25 developed and approved a network plan in late May

1 1996. The TOPC also approved that plan on May 30.

- 2 The office of superintendent and the higher education
- 3 coordinating board are working to prepare a proposed
- 4 network governance plan. These entities have
- 5 completed a joint governance plan which will now be
- 6 reviewed by TOPC at the September 30 meeting. The
- 7 headquarters will also submit proposed location plans
- 8 proposing specific locations to be served by the
- 9 network.
- 10 When these plans are submitted, the TOPC
- 11 must prepare a final network and implementation plan
- 12 setting forth locations to be served by the network,
- 13 service delivery specifications and a network
- 14 governance structure as well as a phased technical
- 15 plan, and the construction will begin upon completion
- 16 of the plan. In fact procurement is going on as we
- 17 speak. Requests for proposals are being prepared and
- 18 we expect them to be published shortly.
- 19 Where is this network going to go? Well,
- 20 again, this is a backbone network at this point and
- 21 the legislation calls for it to be built in three
- 22 phases. In phase 1 it will link main campuses of the
- 23 six public baccalaureate institutions, the branch
- 24 campuses, UW and WSU and the main campuses of the 32
- 25 community and technical colleges as well as the

1 educational service districts. In phase 2 this

- 2 backbone will be extended to each of the state's 296
- 3 school districts as well as the public higher ed off
- 4 campus and extension centers and (inaudible). It will
- 5 also serve the independent nonprofit baccalaureate
- 6 institutions as prioritized by the TOPC, so TOPC has a
- 7 little more to do in that regard.
- 8 In phase 3 the network will expand
- 9 locations still to be determined by TOPC but which,
- 10 according to the legislation, may include public
- libraries, the state and local governments, community
- 12 resource centers and the private sector. What
- 13 services will it provide? Again, it's a digital
- 14 backbone so it will provide a variety of services
- 15 including Internet and Internet services, including
- 16 worldwide-web-based application, electronic mail. It
- 17 will provide group video conferencing to extend the
- 18 delivery of classes through distance learning in a
- 19 classroom environment. It will allow educators and
- 20 others to meet with each other in large groups. It
- 21 will also provide full motion video distribution using
- 22 digital satellite technology.
- 23 How will the K-20 network be funded? I
- 24 heard Mike Bookey say it earlier that access to the
- 25 district might be free. In fact nothing is free. And

1 the TOPC still has to make the final decision on this,

- 2 but currently the ISP, the headquarters and OSPI have
- 3 each proposed that there will be an internal service
- 4 funding mechanism like a revolving fund under which
- 5 the backbone services are provided to the
- 6 participating institutions on a cost reimbursement
- 7 basis.
- 8 The formulas for what costs there would be
- 9 would be determined by OFM after consultation with DIS
- 10 and network users so that you would have sufficient
- 11 but not excessive revenues and that the institution
- 12 will pay an appropriate share of the costs. However,
- 13 the fund would also under their plans receive initial
- 14 capitalization from the 1996 K-20 appropriation of \$42
- 15 million. And this is only talking about the backbone
- 16 again, and the purpose of this is to avoid dependence
- 17 on continued legislative appropriations. Under the
- 18 proposal the equipment facility that resides at
- 19 particular institutions and which are not shared among
- 20 all the institutions but beyond premises equipment and
- 21 maintenance would continue to be funded on an
- 22 individual basis through the state budget process.
- So that's an overview of the K-20 network.
- 24 There's still much work to be done. The next TOPC
- 25 meeting will be on September 30. They will be looking

1 at governance. After that they will look at funding

- 2 and after that they must approve the acquisitions on
- 3 equipment to actually start construction. So with
- 4 that project we're going to expand the state
- 5 infrastructure and we still leave a lot of
- 6 responsibility to the local school district. And
- 7 you've asked me to talk a little bit about the
- 8 subsidies that the Telecommunications Act is looking
- 9 at. DIS -- I can't speak for the TOPC, the TOPC is 16
- 10 independent people and they don't necessarily have a
- 11 collective voice at this point. However, speaking for
- 12 DIS, I will tell you some of the concerns we have. We
- 13 are not opposed to subsidies as such, but we think
- 14 they must be very carefully scrutinized and narrowly
- 15 circumscribed. You need to look out for the effect
- 16 that subsidies will have on competition in the
- 17 marketplace because we believe that competition is
- 18 going to be the most effective driver downward of
- 19 prices, that they be neutral, and that they don't
- 20 favor specific service providers over others. We're
- 21 also concerned that the net effect of any national
- 22 subsidy system be one that benefits Washington state,
- 23 and if there is a national system are there going to
- 24 be net outflows or inflows into Washington state
- 25 because otherwise you're cost shifting, and, while I

1 don't doubt that the people of Massachusetts or North

- 2 Dakota have need for telecom services, I'm not sure
- 3 that the taxpayers of Washington are the proper
- 4 sources of revenue for them.
- 5 Finally, we're very concerned that the
- 6 money providing subsidies not be a substitute for
- 7 seeking efficiencies. School districts looking at
- 8 high technology or advanced services still need to get
- 9 their priorities in order and the IT planning has to
- 10 reflect the priorities of each school district, and
- 11 some are making IT, or information technology, a
- 12 priority in their school districts and others are not.
- 13 And that has to be a local decision. Also, the
- 14 readiness of each school district to link up. Where
- there is not proper language it doesn't make sense to
- 16 give much money to a school district. I've heard
- 17 war stories of school districts receiving and passing
- 18 the technology level and simply not knowing what to do
- 19 with the money, looking at the number of teachers they
- 20 have, dividing the money by the number of teachers and
- 21 giving \$127 to each teacher. The teacher goes out and
- 22 buys some VCRs and that's your IT spent. So you need
- 23 to look at the sufficiency of planning.
- 24 Finally, we're concerned that the criteria
- 25 does not get in the way of any kind of cooperative

1 ventures among various educational sectors. That

- 2 where there is a shared infrastructure -- and in
- 3 Washington state we are committed to a shared
- 4 infrastructure where we do not duplicate
- 5 infrastructure among the various educational sectors
- 6 -- that this not somehow disqualify the various
- 7 sectors participating from any of the benefits of a
- 8 subsidy mechanism that's finally put in place.
- Those are the DIS's concerns in a nutshell.
- 10 Be happy to answer any questions you have.
- 11 CHAIRMAN NELSON: Those cautions are very
- 12 well taken and I think, as you may know, the state
- 13 members of the board are concerned that the FCC
- 14 members of the board want to have a national cookie
- 15 cutter program. I'm wondering if the DISs of the
- 16 various states have a national organization and, if
- 17 they have, if they share Washington state's concerns,
- if they've shared them with the FCC commissioners.
- 19 MR. DANNER: In fact there is a national
- 20 organization. It's NASIRE, which stands for the
- 21 National Association of State Information Resource
- 22 Executives or some such thing. They are having a
- 23 convention within the next six weeks in Portland,
- 24 Maine, and I am not sure whether they filed in the
- 25 recent FCC proceeding, ongoing FCC proceeding. DIS

1 filed reply comment on May 1 in which we raised some

- of these concerns. Time restraints keep us from
- 3 participating even though we would like to. I would
- 4 like to -- I would find out before Friday whether
- 5 NASIRE has in fact participated and if not I will take
- 6 it to my director and see whether he would like to
- 7 raise that with NASIRE.
- 8 CHAIRMAN NELSON: I think it would be the
- 9 next three or four weeks are actually the critical
- 10 weeks for trying to persuade FCC commissioners, and
- 11 the chairman of the FCC has announced that he might
- 12 favor a one percent tax, if you will, on all
- 13 carriers's revenues which would obviously be flowed
- 14 through to end users as a way to fund the schools and
- 15 libraries piece, and as far as we can tell from
- 16 talking to the FCC staff I think really a one-size-
- 17 fits-all program, so I think to get the flexibility to
- 18 states and, as you say, local governments -- local
- 19 school districts are very used to autonomy -- it would
- 20 be very prudent if they could make their voices heard
- 21 soon.
- MR. DANNER: Thank you. I will certainly
- 23 pass that upstairs.
- JUDGE FFITCH: Any other questions?
- 25 COMMISSIONER GILLIS: David, you mentioned

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- the importance of local control or local school
- 2 districts putting together their own IT plans or being
- 3 part of that. Do you have any process suggestions on
- 4 that at all?
- 5 MR. DANNER: Well, the governor's
- 6 telecommunications task force recommended that DIS,
- 7 UTC or Washington state extension service and CTED,
- 8 the Community Trade and Economic Development
- 9 Department, look at going to some communities and
- 10 discussing ways in which demand can be aggregated so
- 11 we can get private sector folks in these smaller towns
- 12 to work together to attract the infrastructure
- 13 providers to their areas. That's certainly one thing
- 14 we're looking at. We haven't -- it's been a very busy
- 15 summer and we're hoping to spend a little more time on
- 16 that. So that's one way that we have on our mind.
- 17 COMMISSIONER GILLIS: Sounds like a good
- 18 idea. The digital backbone that you mentioned, what
- 19 are the components of that? Is that fiber cable
- 20 software or what is that?
- MR. DANNER: We're looking at a wire line
- 22 transport. It's going to be various capacities and
- 23 various links depending on who is using it. It's
- 24 going to be scaleable so that we're not building big
- 25 trunk lines where there's not demand. Some links will

1 be OC3. Others will be a combination of T1s and T3s

- 2 as needed. Then upgrades when we expect demand to
- 3 increase, and then they will go to what under the
- 4 current governance plan could be something called the
- 5 CNAC, which is an advisory body which I can't tell you
- 6 what it stands for, and I will have to get back to you
- 7 what that acronym actually is, but they will propose
- 8 what upgrades are needed during the next biennium and
- 9 deal with them basically through the process.
- 10 COMMISSIOENR GILLIS: As a part of the
- 11 process is there a detailed inventory being conducted
- of what facilities are in place now that potentially
- 13 could be utilized?
- 14 MR. DANNER: In terms of what state
- 15 backbone facilities there are?
- 16 COMMISSIONER GILLIS: Well, not just state,
- 17 but in general in options, privately owned,
- 18 state-owned, the network facilities that are in place
- 19 now, is there an inventory being conducted as a part
- 20 of the process?
- 21 MR. DANNER: I don't believe there's an
- 22 inventory being conducted as part of the process. We
- 23 are going through requests for proposals to all of the
- 24 private providers who will come back and tell us what
- 25 services they can provide in certain parts of the

state. We want to -- DIS, when I say there's a DIS 1 2 backbone, 87 percent of our telecommunications service at DIS are leased from the private sector so the state 3 really owns very little infrastructure and we have not 4 yet taken an inventory of what private services are 5 out there. Now I have heard from some folks in the 6 K-12 community that they are looking in the -- OSPI 7 8 has to put a proposed location plan forward as part of 9 this planning process, and they were surprised at how 10 much progress has been made by the school districts in moving ahead with IT and there are still haves and 11 12 have-nots but for the most part people are further along than they expected and very pleased by that. 13 14 COMMISSIONER GILLIS: I guess since we 15 don't have an inventory we don't know actually, but a 16 general impression of your technology of the network is the goal to provide a digital network to these 17 various nodes that have been identified. Would you 18 19 see the chief value of such a network providing the 20 feasibility of making those connections not thinking 21 about the cost, or is it providing affordable 22 connections or a combination or is that something you 23 can discern? Does that make sense as a question? MR. DANNER: Well, yeah. 24 The backbone is 25 intended to provide the services that the schools and

1 colleges will need but you're creating -- by adding it

- 2 to the DIS network you're enlarging the market. As
- 3 volume purchasers they expect the prices to go down
- 4 and we expect this to be the most cost-effective way
- for the schools and the colleges to get on, to get the
- 6 kind of services they want. So if that's your
- 7 question, yeah. That's the intent.
- 8 COMMISSIONER GILLIS: I quess basically the
- 9 question, what I am struggling with is, are we missing
- 10 key physical pieces of the network that's needed to
- 11 reach these nodes with the capacity that is desired,
- which is, I guess, sort of a level one question, and
- if the answer is yes, then I suppose those need to be
- 14 obtained or built or whatever. A level two question
- is maybe they're there at this point but it's just
- 16 simply not affordable, which is a different issue that
- 17 you're talking about in using state market muscle to
- 18 lower the price.
- MR. DANNER: Again, we expect backbone to
- 20 provide all the service that will be required by all
- 21 the institutions that plan to use it. It's going to
- 22 be a very robust backbone network. When you get off
- 23 into the spurs -- and again we plan to go out to the
- 24 school districts, 296 of them, and to ESDs, the
- 25 community/technical colleges and so forth. We want to

1 scale the network so that it meets demand so we can

- 2 anticipate demand and meet that demand. Insofar as
- 3 those people are part of the dots on the map that you
- 4 saw Mike put up earlier, and I didn't bring any
- 5 overheads of my own today, but it will go to the front
- 6 door of every school district in the state.
- 7 Now, whether there's sufficient
- 8 infrastructure past the front door is another matter
- 9 that is largely a local issue, one of local
- 10 priorities. The TOPC would also be addressing that
- 11 question because there are questions about equity.
- 12 How do you get into those have-not areas and what's
- 13 the proper way to do it but recognizing there's also
- 14 local autonomy?
- 15 CHAIRMAN NELSON: For the record's sake,
- 16 Dave, the existing network, isn't WSU's network
- 17 microwave based?
- 18 MR. DANNER: It's microwave based.
- 19 CHAIRMAN NELSON: And you are going to be
- 20 adding satellite capacity with this upgrade, right?
- MR. DANNER: We will be adding satellite
- 22 up-links which will then be able to be done by digital
- 23 dishes. The microwave network would be continued to
- 24 be used although by putting in some of this more
- 25 robust fiber. I don't know what the long-term

- 1 implications of that for WSU would be.
- JUDGE FFITCH: Any other questions? Thank
- 3 you very much. Ron Johnson.
- 4 MR. JOHNSON: If I knew TVW was here I
- 5 would have worn a tie. I'm Ron Johnson. I'm
- 6 vice-president for Competing Communications at the
- 7 University of Washington where I'm also a faculty
- 8 member in the school of library science, which I guess
- 9 gives me a two-fer on the subject. I also am -- as a
- 10 principal investigator on some of the earlier K-12
- 11 Internet projects done in this state and I am on the
- 12 technical work group to do the design work for that
- 13 TOPC network infrastructure that a couple of folks
- 14 have been talking about.
- We at the University of Washington have a
- 16 fairly extensive educational and health care network
- 17 infrastructure. Two examples -- three examples. Two
- 18 examples are we run an educational Internet facility
- 19 that includes almost every institute of higher
- 20 education with a budget of more than \$10 million a
- 21 year in Washington, Alaska, Montana, Idaho, North
- 22 Dakota and Oregon. We additionally run the WAMI
- 23 infrastructure. WAMI is a program of Washington,
- 24 Alaska, Montana and Idaho in which the legislatures of
- 25 those four states agree to cooperatively fund programs

1 at the University of Washington to allow for medical

- 2 education and a certain amount of health care to take
- 3 place cooperatively across the region. So we are
- 4 fairly involved in the history and future of
- 5 telemedicine as well as present delivery of a lot of
- 6 services there.
- 7 Like it or not, we've come to live in a
- 8 digital age. It's true in education. It's true in
- 9 K-12, it's true in research universities. It's true
- in health care. It's progressively becoming truer in
- 11 the K-12 -- in the library world than it is already in
- 12 a research university world. Whether we like it or
- 13 not I think we have to face the truth. People's
- 14 prospects for education and hence for jobs and, in a
- 15 real sense, for the kind of health care that they are
- 16 able to receive is going to be a function of their
- 17 access to telecommunications infrastructure as all of
- 18 those products -- I will call them products -- come to
- 19 be available in primarily digital forms in different
- 20 parts of the state region.
- The bottom line for us is that basic access
- 22 to telecommunications services by people and
- 23 institutions is more essential than it was at the
- 24 beginning of the university service. Questions are,
- 25 what kind of access, for whom, and how do we engineer

1 it and how do we pay for it? In the education world

- 2 we're at this point moving into a serious
- 3 revolutionary period in the evolution of learning
- 4 technologies. And almost all of those learning
- 5 technologies that are promising are based upon high
- 6 speed services that are a little bit deployed and not
- 7 really very deployable beyond a pilot and test cases.
- 8 These high speed services are things like
- 9 inter-institutional SONET services, which is easy to
- 10 get in a place like Seattle but hopeless in a place
- 11 like Colville. Those are the raw materials of inter-
- 12 institutional transmission of information,
- 13 distribution channels of educational and health care
- 14 product.
- In the subscriber loop and in many respects
- in the future, I think that the key to educational
- 17 reform and health care improvement is the direct
- 18 access to people in their houses and businesses, at
- 19 their place of business. In the subscriber loops in
- 20 order to get -- we need high speed services. We need
- 21 high speed IDS to actually be there and be deployed.
- 22 We need ADSL and HDSL and so on to be deployed. ISDN
- 23 is -- I still don't know. ADSL is asynchronistic
- 24 digital subscriber link. HDSL is the fast version of
- 25 it and so on. DBS distribution in which there's

1 actually digital DBS stuff going over it, not just

- 2 shopping channels and movies. Digital distribution of
- 3 educational objects across the system is something
- 4 that Microsoft and other companies plan on, and it's
- 5 something which, again, only works in a few pilot
- 6 modes in a few pilot test sites. We need cable
- 7 modems, not just ADSL. We need TCI and Viacom and Cox
- 8 and Warner to begin to deploy high speed cable modems
- 9 at reasonable provisions in their cable systems around
- 10 the state. We need all of those technologies to sort
- of evolve further and become more pervasive.
- How do we get that? On the invasion front
- 13 I expect that that is sort of synonymous with more
- 14 investment. Somebody is going to have to find a way
- 15 to invest in these infrastructures in order to make
- them more usable and then more deployable across the
- 17 state of Washington and the nation. We need pervasive
- 18 availability of these things. That's a problem in the
- 19 state with a rural telecommunications problem in the
- 20 sense of have and have not infrastructure. For us to
- 21 deploy educational opportunities for credit classes to
- 22 people in their homes across the state means that the
- 23 distribution channel has to actually work in those
- 24 parts of the state. Otherwise we can't find the
- 25 product and we face a serious problem of making those

things generally available outside of metropolitan I-5

- 2 corridor. They also have to be affordable for us for
- 3 education in general, health care in general and for
- 4 the subscribers. How to make that happen is your
- 5 problem.
- 6 CHAIRMAN NELSON: Thanks.
- 7 MR. JOHNSON: What I think is the best
- 8 approach in making that happen, to making invasion
- 9 happen, to making the products available, to make them
- 10 affordable is to incent as much competition as is
- 11 possible through the deregulation process. That it is
- 12 through having multiple suppliers, having people who
- 13 can make money by investing in the new technologies
- 14 that we're likely to get the best products. That's
- 15 been true in general in the digital world, and I think
- 16 it will continue to be true. So what we would urge
- 17 you to do is, to the degree possible, pursue models
- 18 that assure, insure competition in the local loops and
- 19 the infusion of investment capital into invasion and a
- 20 broad deployment rather than provided to achieve the
- 21 same end by subsidies, which would be very difficult
- 22 to target in terms of paying for something that you
- 23 actually know that you want to get and then getting it
- 24 and being happy with it for a very long time. These
- 25 are very dynamic technologies. They're going to

1 change a lot and it's very difficult to predict now

- 2 what one would subsidize or kind of result one will
- 3 get through some kind of subsidy.
- 4 On a somewhat off topic, but I think on
- 5 topic, I also think it's very important to assure
- 6 educational access to things, to band width, in cable
- 7 systems, in spectrum allocations and the like. The
- 8 University of Washington, WSU, a number of K-12
- 9 districts, ESDs, Seattle School District, try very
- 10 hard to use television and similar vehicles to reach
- 11 the audiences they need to reach, the students and the
- 12 parents, and it's very difficult for us to get access
- 13 to spectrum without sort of legislative set-asides
- 14 that insure that we can get access to each channel in
- 15 the pay channel world, that we can get access to --
- 16 let's say if ADSL does work and you can get the
- 17 equivalent of cable channel over the central office of
- 18 a telephone company, we need to be sure that we also
- 19 have access to the equivalent of educational offerings
- in those forms, otherwise it simply won't happen.
- 21 We don't have the money to go out and buy a spectrum
- 22 in these auctions. No one is going to give it to us.
- 23 It's only going to come through a deregulation and
- 24 competition process and education is assured of some
- 25 reasonable application to these old modes used with

1 the new nodes. Old television combined with new web

- 2 services have meant radically new and improved
- 3 product. If we don't have access to the television
- 4 component of it we can't deliver the web component of
- 5 it. It's true for K-12 through postdoctoral training
- 6 for physicians in Yelm. That's my message.
- 7 CHAIRMAN NELSON: Thank you. That last
- 8 digression is interesting. Of course you know this
- 9 commission doesn't do spectrum allocation. That's a
- 10 matter for our federal counterparts, but I've actually
- 11 heard from other superintendents who simply want some,
- 12 what he represents, capacity line fallow in the FM
- 13 band somewhere for broadcasting announcements to
- 14 migrant workers in the middle part of the state.
- 15 Can't forget our old technologies too.
- 16 MR. JOHNSON: A lot of the technologies
- 17 that are being used now are combinations of old
- 18 technologies with new technologies. The dial-it-up
- 19 and get the stuff back over a DBS link is one model
- 20 for distributing services, and it's very difficult for
- 21 us to take the few resources we do have and attempt to
- 22 engineer coherent approaches when we have a very
- 23 unpredictable world in respects of half of the
- 24 technologies that we need to use.
- 25 CHAIRMAN NELSON: Just one more question.

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1 You mentioned the WAMI program. Would you assume

- 2 because you do serve the rural residents of all those
- 3 states that are considered a lot more rural than we
- 4 are that you would be eligible for the reimbursements
- 5 under the health care provisions of this act?
- 6 MR. JOHNSON: We're hoping that that would
- 7 be the case.
- 8 CHAIRMAN NELSON: Thank you.
- 9 JUDGE FFITCH: Any other questions? Thank
- 10 you, Mr. Johnson. John Stanton.
- MR. STANTON: I don't know if it's the
- 12 progress or the absence of it. The last speaker said
- 13 he came tieless. I came jacketless and tieless. My
- 14 name is --
- 15 CHAIRMAN NELSON: TVW is recording it all.
- MR. STANTON: For posterity. My name is
- 17 John Stanton. I grew up just about a mile from here.
- 18 I'm today the chairman and chief executive officer of
- 19 Western Wireless Corporation. We are a wireless
- 20 company providing service using both cellular and
- 21 PCS technologies to about 41 percent of the land and
- 22 about 10 percent of the population in the United
- 23 States. We're based here in Washington state, in
- 24 Issaquah in fact. We employ about 525 people in the
- 25 state of Washington here. In Washington state we

1 currently provide service to Vancouver, Washington and

- 2 we are -- through a license which we received last
- 3 year and just last quarter we received licenses to
- 4 provide services in Spokane, Walla Walla, Bremerton,
- 5 Aberdeen and Yakima through new PCS licenses that the
- 6 FCC recently issued, and we would expect to provide
- 7 service through our partnership in those markets next
- 8 year.
- 9 I have some longer written comments that I
- 10 will provide to the Commission, but I will try and
- 11 make a few brief points. First of all, let me
- 12 describe what being a rural wireless carrier really
- 13 means. We -- and I will do so by using four examples.
- 14 Today in the Antelope valley and the Reese River
- 15 Valley in the state of Nevada we provide universal
- 16 service. We do that in an unusual way. Nevada Bell
- 17 literally did not want to provide service to these
- 18 small communities and we had an opportunity in
- 19 cooperation with the Public Service Commission of
- 20 Nevada to, under a stipulation order, to provide
- 21 wireless services as the primary means of
- 22 communications to these small communities, and we do
- 23 so fulfilling responsibilities to all consumers as
- 24 well as hospitals and schools in the community.
- As a second example in Hawaii, the small

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town of Kao on the big island, the Hawaii Public

- 2 Service Commission finally tired of the local quality
- 3 of service being provided by the wired local exchange
- 4 carrier in the community and as a consequence
- 5 literally put up for bid earlier this year the
- 6 opportunity for wired and wireless carriers to provide
- 7 service to that local community. In that case we bid
- 8 to provide the service and another wireless carrier
- 9 actually won the bid and is attempting to put services
- 10 together. It's been thwarted by the frustrations
- in that both the regulatory process as well as the
- 12 legal system in that GTE, the local wired carrier,
- 13 sued both the Commission and the wireless carrier in
- 14 an attempt to thwart the effort of the Commission to
- 15 deliver high quality service to this small community.
- 16 But wireless services, whether cellular or PCS in that
- 17 case, we believe could substantially improve the
- 18 quality of service being provided.
- 19 Let me bring two examples to your attention
- 20 specifically related to schools and hospitals.
- 21 Western Wireless through our operating entity in
- 22 Billings, Montana in 1994 went through a process with
- 23 St. Vincent Hospital to respond to the poor quality of
- 24 telecommunications services that they felt they had
- 25 internally. We offered an in building wireless system

1 to literally put a phone on the belt of every doctor

- 2 and administrator in the hospital, and with great
- 3 success it provided high quality services for what we
- 4 think not only improves the productivity but the
- 5 quality of patient care being provided. Class link,
- 6 which is a service being provided through the cellular
- 7 technology industry association to at least one school
- 8 in all 50 states, provides similar services to schools
- 9 where we're able to, using wireless services,
- 10 literally put a phone on the belt of every speaker --
- 11 every teacher.
- Mike Bookey, the first speaker, referred to
- 13 the low quality of infrastructure that's available in
- 14 schools with very few phones per student, much less
- 15 per teacher, per administrator or per parent. By
- 16 providing wireless services we can get around the
- difficulty of having to build new infrastructure and
- add the benefits of mobility to the users in the case
- 19 of the schools, the teachers, the administrators and
- 20 in the case of the hospitals, the doctors and the
- 21 nurses.
- I think that as we move forward we view
- 23 there being as five key points to think about in terms
- 24 of the current proceeding before the joint board.
- 25 First of all, we believe that wireless in many cases

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- 1 is the least expensive mechanism for delivering
- 2 communications services. We think that's particularly
- 3 true where the infrastructure is limited in such areas
- 4 as schools and in some cases hospitals. The Hatfield
- 5 study, which has been provided to the joint board, I
- 6 think addresses that effectively.
- 7 Second, we think that the local exchange
- 8 carriers today enjoy a franchise monopoly. The
- 9 absence of competition we believe eliminates
- 10 incentives for innovation. Simply put, if you look at
- 11 the presence and the role that local exchange carrier
- 12 competition in urban areas, primarily wired today, has
- 13 provided, the great benefits, both to consumers as
- 14 well as hospitals and schools, we think is possible in
- 15 rural areas. But not without two key economic
- 16 changes. Today only the local exchange carriers
- 17 receive subsidies. The subsidies are paid to the
- 18 carriers and there's nothing that guarantees that the
- 19 benefits that are designed to be delivered ultimately
- 20 to consumers, schools and hospitals, will in fact be
- 21 delivered by those carriers. Second, and perhaps most
- 22 frustrating to us, is that as wireless companies we
- 23 actually pay those subsidies. The interconnection
- 24 proceeding that the FCC officiated is helping to
- 25 address that, but what we've discovered through that